

SUMMARY

The Facility Stabilization mission consists of B-Plant, WBS 1.4.1.1, Project Baseline Summary (PBS) TP01; Waste Encapsulation and Storage Facility (WESF), WBS 1.4.2.1, PBS TP02; Plutonium-Uranium Extraction (PUREX) Facility, WBS 1.4.3.1, PBS TP03; 300 Area/Special Nuclear Materials, WBS 1.4.4.1, PBS TP04; Plutonium Finishing Plant (PFP) Deactivation, WBS 1.4.5.1, PBS TP05; PFP Stabilization, WBS 1.4.5.2, PBS TP06; PFP Vault Management WBS 1.4.5.3, PBS TP07; Transition Project Management, WBS 1.4.6.1, PBS TP12; K Basin Deactivation, WBS 1.4.7.1, PBS TP09; Accelerated Deactivation, WBS 1.4.8.4, PBS TP10; 324/327 Facility Transition, WBS 1.4.10.1, PBS TP08; and Hanford Surplus Facility Program (300 Area Revitalization), WBS 1.4.11.1, PBS TP14, projects.

All field activities required for B Plant 221-B canyon deck deactivation were completed on schedule, with the exception of final radiological surveys and removal of any combustibles (taken in between now and June 30, 1998). Other deactivation progress includes completing the isolation and sampling of additional canyon vessels as scheduled. Work is on schedule to complete the final liquid waste transfer to Tank Farms by mid May, with final cell closure by the end of May. One hundred twenty-eight end points were signed off in April, bringing the total number closed to 1,025 (57 percent) for the project.

Project W-059, "B Plant Ventilation Safety Upgrade," construction activities are continuing ahead of schedule. During April, the Air Cleanup Train (ACT) units were anchored, ducting to the stack is in process, electrical installation is nearly complete, stack monitoring mock-up is ready to test, and the programmable logic controllers (PLCs) were delivered and programmed.

Construction of the WESF Low Level Liquid Waste (LLLW) system (decoupling from B Plant) is currently one month behind schedule. The delay is due in most part to the discovery of RCRA listed waste (1-1-1 Trichloroethane) in tank 100, requiring increased scope related to regulatory issues with the removal and disposal of the tank. A path forward, approved by the State of Washington, Department of Ecology (Ecology), was developed to relocate the tank and its contents to the B Plant canyon. Although the LLLW will not be operational by June 30 as currently scheduled, B Plant deactivation activities are not expected to be impacted. The WESF Basis of Interim Operation (BIO) and the Emergency Ion Exchange Module safety analysis document were approved on schedule.

Waste Acid Treatment System (WATS) Phase II activities are continuing to make progress to recover the schedule. The Waste Characterization Report is near completion and most all waste will be designated non-hazardous. Although Ecology has not responded to the Toxic Air Pollutant (TAP) Permit Notice of Construction, field work was initiated in the 333 Building where air permits are not required.

The raw data results for 303K RCRA closure sampling has revealed lead contamination in the trench. The level of contamination, which is above the cleanup standard will prevent the interior of the building to be clean closed, adversely impacting the milestone completion date (July 31, 1998). A pre-existing condition report was completed. A path forward for the 303K closure issues was developed. Ecology has agreed will join the effort to establish a consolidated path forward.

Formal readiness assessment approval for restart of Group I Operations was received and PFP is focused on developing a path forward in response to RL Fissile Material Movement Restriction (FMMR) Operations Readiness Review (ORR) on Group II Operations. The facility also continues to concentrate on recovery from the May 14, 1997, Room 40 chemical over pressurization incident and supporting the PHMC internal Facilities Evaluation Board (FEB) evaluation response.

Annual validation for Project W-460, "Plutonium Stabilization and Handling (PuSH)," was completed on schedule during April. The definitive design work was initiated with focus on field walks to verify conditions not immediately visible. Preparation of the procurement specification for the Plutonium Stabilization and Packaging (PuSAP) system unit also began on schedule.

Two grout containers, characterized as low level waste, were shipped from B Cell to the 200 Area burial grounds. However, the B Cell project is currently eleven months behind schedule due to radiological and waste container characterization issues involving most of the grout containers. The revised Radiochemical/High-Level Vault/Low-Level Vault (REC/HLV/LLV) and Associated Areas Closure plan schedule integrates the work scope associated with the May 1999 Tri-Party Agreement milestone M-89-02, "Complete Removal of Equipment and Mixed Waste from B Cell," with the integrated closure plan baseline. This strategy was presented to Ecology and has received favorable reaction.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, FO, and RL) shows that 22 milestones (92 percent) were completed on or ahead of schedule, one (4 percent) was completed late and one (4 percent) is overdue. Two FY 1997 milestones are overdue, with one forecasted to be complete by September 30, and the other by September 30, 2000.

ACCOMPLISHMENTS

- Received formal readiness assessment approval for restart of Group I Operations at PFP on schedule. (Planned)
- Signed 128 B Plant deactivation endpoints; 1,025 of 1,785 (57 percent) closed to date. (Planned)
- Completed emptying, isolating, and sampling of additional B Plant canyon vessels on schedule. (Planned)

Hanford Site Performance Report**Section I - Facility Stabilization - April 1998**

- Completed B Plant canyon deck deactivation field activities on schedule. (Planned)
- Received approval of WESF BIO and Emergency Ion Exchange module safety analysis document on schedule. (Planned)
- Completed Facility Evaluation Board (FEB) assessment at WESF on schedule. (Planned)
- Completed a project plan for the 2704-C demolition. (Unplanned)

COST PERFORMANCE (\$M):

	BCWP	ACWP	VARIANCE
Facility Stabilization	\$ 96.0	\$ 90.6	\$5.4

The \$5.4 million (5.6 percent) favorable cost variance is within the +10 percent established threshold.

SCHEDULE PERFORMANCE (\$M):

	BCWP	BCWS	VARIANCE
Facility Stabilization	\$ 96.0	\$ 103.1	(\$7.1)

The \$7.1 million (6.9 percent) unfavorable schedule variance is within the -7.5 percent established threshold.

ISSUES

- 1) **PFP FMMR.** The self-imposed restriction has been in effect 16 months. Affected activities include cementation of bulk plutonium-bearing materials, thermal stabilization of oxides, and Segment #4 duct terminal clean out. Cost and schedule impacts are expected as a result of the work restriction.
Strategy/Status: A formal readiness assessment approval was received for restart of Group I Operations. Two fissile material moves with Management Oversight Plans were completed: a high Radiological move from 230-B to Vault 175; and a 55 gallon drum move. The focus is now on conducting the Phase II Operational Readiness Review (ORR).

2) **Complete Removal of Equipment and Mixed Waste from B Cell (M-89-02).**

B Cell project is currently eleven months behind schedule due to radiological and waste container characterization issues involving most of the grout containers. Successful completion of Tri-Party Agreement M-89-02, due May 1999 will not be achieved.

Strategy/Status: The revised REC/HLV/LLV and Associated Areas Closure plan schedule integrates the M-89-02 work scope with the integrated closure plan baseline. This strategy was presented to Ecology and received favorable reaction. Meanwhile, two grout containers characterized as low level waste were shipped from B Cell to the 200 Area burial grounds.

COST VARIANCE ANALYSIS: \$5.4M

WBS/PBS

Title

1.4.1/TP01

B PLANT

Description and Cause: The favorable cost variance (\$1.9M; 12.9%) is primarily due to deactivation of systems and cancellation of related surveillance and maintenance activities. Contributing to the underruns was the receipt of a favorable passback in March.

Impact: No overall programmatic impact.

Corrective Action: None. However, the strategy to fund DNFSB 94-1 activities at PFP require the Facility Stabilization Project to underrun by approximately \$7.6M to remain within funding limitations.

1.4.4/TP04

300 Area/SNM

Description and Cause: The favorable cost variance (\$0.3M; 12%) is due to costs not received for completed 303K sampling and analysis work in addition to a favorable passback received in March.

Impact: No overall programmatic impact.

Corrective Action: Variance will self-correct as costs are received.

1.4.5/TP05, TP06, TP07

PFP

Description and Cause: The favorable cost variance (\$1.6M; 3.4%) is due to implementation of BCR FSP-98-003, Revision 4, PFP Incremental Workslope to meet DNFSB 94-1, which added approximately \$13 million in work scope. As a result, the favorable passbacks, which occurred in March, are now apparent (i.e., last month's variance was unfavorable \$ 9.4M).

Impact: No overall programmatic impact.

Corrective Action: None. However, the strategy to fund DNFSB 94-1 activities require FSP to underrun by approximately \$7.6M to remain within funding limitations.

1.4.11/TP14

HSFP 300 Area Revitalization

Description and Cause: The favorable cost variance (\$0.1M; 20%) is due to efficiencies realized in the minimum safe monitoring and upkeep of the 321, 3706, and 377 facilities in addition to a favorable passback received in March.

Impact: No overall programmatic impact.

Corrective Action: None. However, the strategy to fund DNFSB 94-1 activities at PFP require Facility Stabilization Project to underrun by approximately \$7.6M to remain within funding limitations.

SCHEDULE VARIANCE ANALYSIS: (\$7.1M)

WBS/PBS

Title

1.4.1/TP01

B Plant

Description and Cause: While the unfavorable schedule variance (\$0.8M; 5%) is within the -7.5% threshold, it is primarily attributed to delays related to the construction of the Low Level Liquid Waste (LLLW) system. The discovery of RCRA listed waste (1-1-1 Trichloroethane) in tank 100 has placed this project approximately one month behind schedule.

Impact: No impact to B Plant deactivation schedule. However, milestone TRP-98-607, "Decouple WESF LLLW system", due June 30, 1998 will be missed.

Corrective Action: A path forward, approved by Ecology was developed to relocate the tank to the B Plant canyon.

1.4.5/TP05, TP06, TP07

PFP

Description and Cause: The unfavorable schedule variance (\$4.2M; 8.4%) is the result of delays due to the FMMR and shifting resources to other non-scheduled priorities.

Impact: DNFSB activities remain in jeopardy.

Corrective Action: Corrective actions are in process to lift the FMMR, and direction was provided to implement BCR FSP-98-003, Revision 5, which restores critical funding to support DNFSB 94-1 activities. BCR FSP-98-003, Revision 5, was partially implemented in April.

1.4.10/TP08

324/327 Facility Transition

Description and Cause: The unfavorable schedule variance (\$1.5M; 8.5%) is due to delays with the B-Cell project as a result of radiological and waste container characterization issues.

Impact: Tri-Party Agreement milestone, M-89-02 will not be completed as scheduled.

Corrective Action: Options for storage container disposal continue to be researched. The revised REC/HLV/LLV and Associated Areas Closure plan schedule integrates this work scope with the integrated closure plan baseline. This strategy was presented to Ecology and has received favorable reaction.

MILESTONE EXCEPTION REPORT

<u>Number/WBS</u>	<u>Level</u>	<u>Milestone Title</u>	<u>Baseline Date</u>	<u>Forecast Date</u>
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OVERDUE - 1

TRP-98-412	FO	Complete Venting of Inactive Misc. UG Storage Tank 241-Z-361	04/30/98	08/06/98
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Cause: The milestone was missed due to inability to obtain required resources to initiate the work scope. Delay is continued due to pending preparation and approval of CERCLA path forward documentation.

Impact: Venting of the Tank 241-Z-361 will be completed late.

Corrective Action: Resources have been obtained to initiate tank characterization. CERCLA path forward documentation is being prepared for submittal to EPA.

FORECAST LATE - 2

TRP-98-709	FO	Complete Hot Cell Deactivation	05/31/98	09/30/98
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Cause: Diversion of resources to other priorities, including the LLLW and capsule shipments, has delayed hot cell deactivation.

Impact: This milestone will be missed. However, no impact to B Plant deactivation activities is expected.

Corrective Action: The schedule and cost impact to the project as a result of this delay will be documented through the baseline change control process.

TRP-96-301	FO	Submit 303K Certificate of Closure to RL	07/31/98	07/31/99
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Cause: Raw data results from sampling indicate the presence of Lead in the trench.

Impact: This milestone will be missed.

Corrective Action: A pre-existing report was prepared. A path forward was developed. Ecology has agreed to join the effort to establish a consolidated path forward.

FY 1997 OVERDUE - 2

TRP-96-615	RL	Provide Recommendations for the Cleanup Of K3 Duct Work	12/31/96	09/30/98
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Cause: The K-3 filter rainwater intrusion and WESF closed loop water system piping replacement absorbed all available resources resulting in this work scope not being completed.

Impact: This milestone was missed.

Corrective Action: This work scope will be performed in parallel with the Hot Cell Clean out work scope.

MILESTONE EXCEPTION REPORT**Number/WBS** **Level** **Milestone Title****Baseline
Date****Forecast
Date****TRP-97-403** **HQ** **Begin Process Solutions at PFP****06/30/97****09/30/2000**

Cause: Completion was not met primarily due to project validation delays, significant scope increases, unavailable funding to accelerate installation of the vertical calciner and the FMMR.

Impact: DOE-HQ milestone IP-3.1-022 was missed.

Corrective Action: A revised schedule and sequence for completion of DNFSB 94-1 activities was proposed. The FMMR on phase I activities was lifted; an ORR is being planned for phase II activities.